O I P E
FEB 1 4 2005
JC35
PATENT & TRADEMARK OFFICE

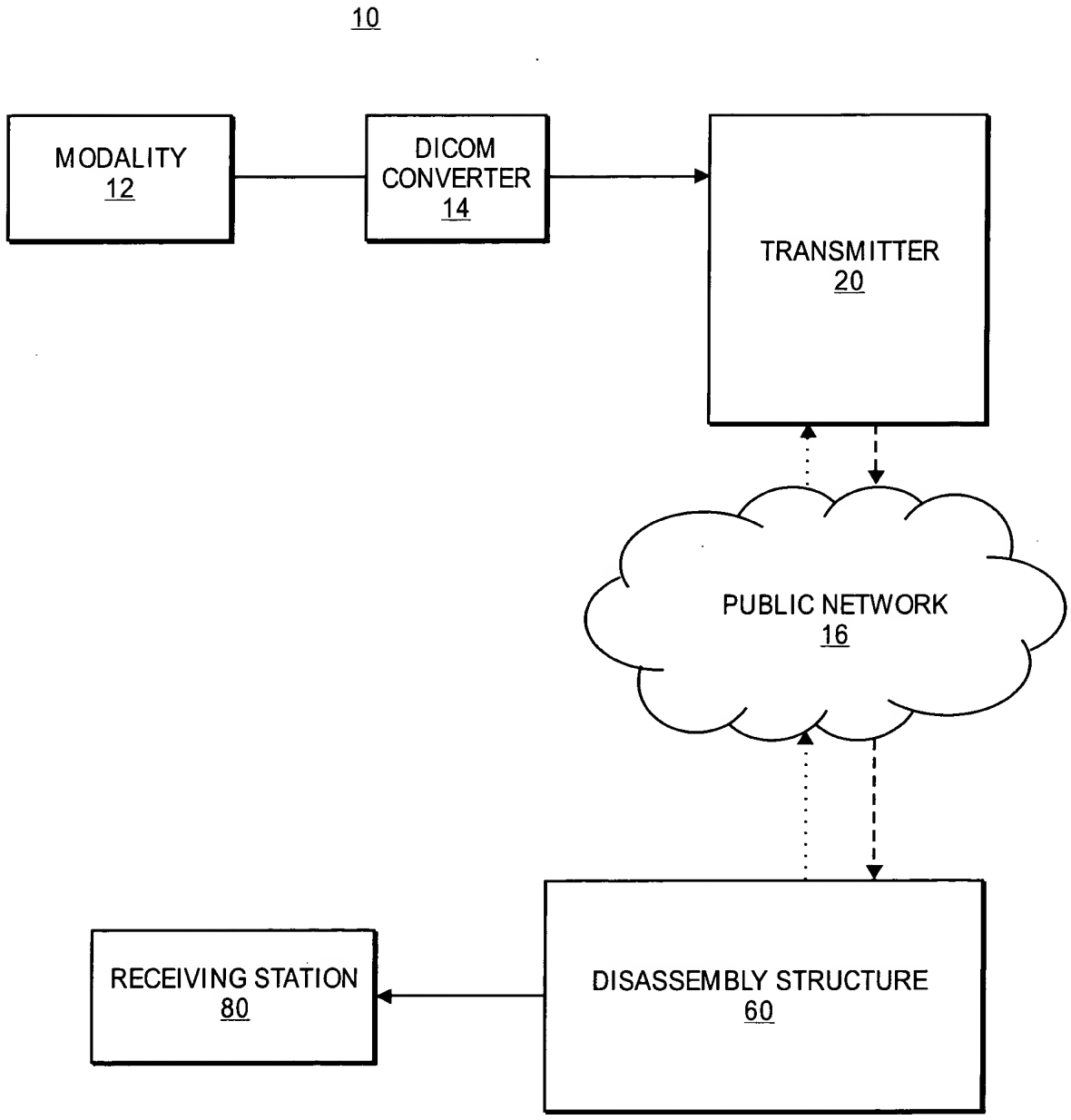

FIG. 1

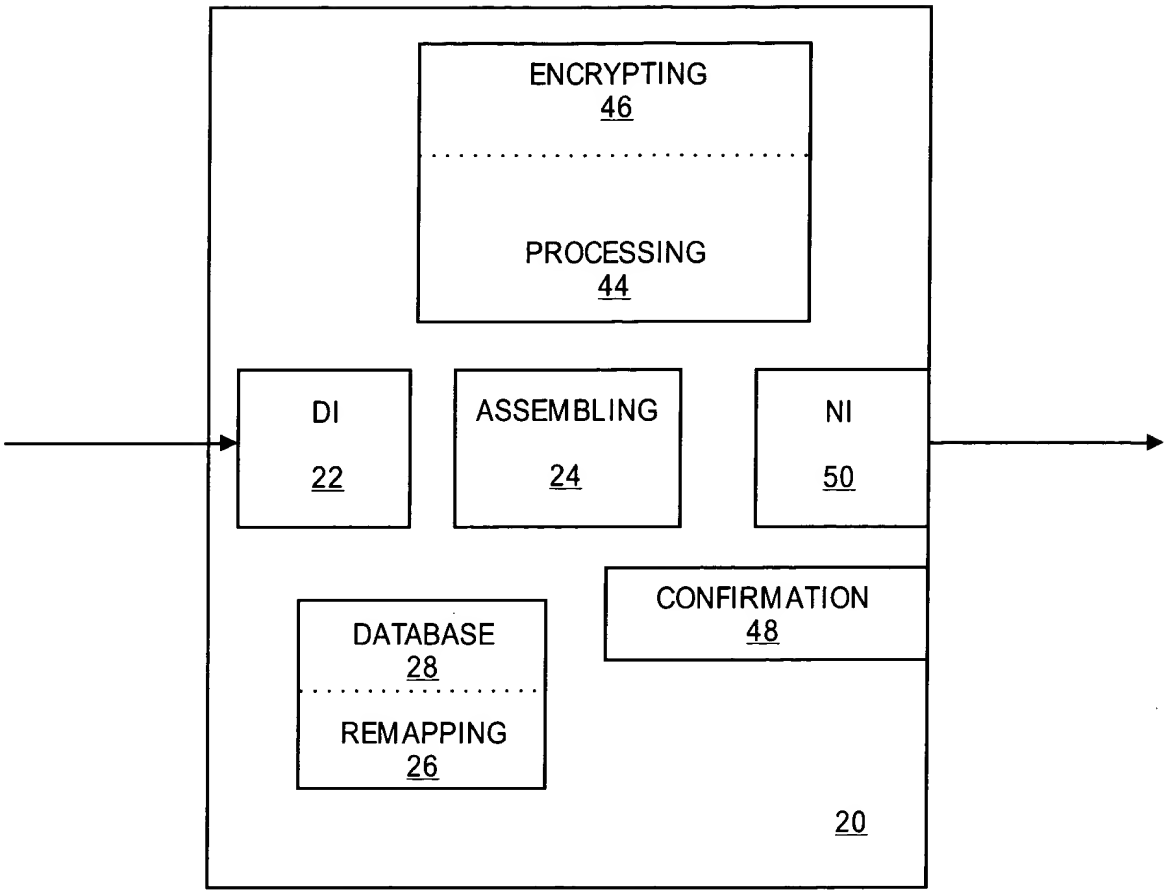
ENCRYPTING
46
PROCESSING
44
DI
22
ASSEMBLING
24
NI
50
CONFIRMATION
48
DATABASE
28
REMAPPING
26
20

FIG. 2

28

AE TITLE Receiving Station 30	COMPRESS 38	ENCRYPT 40	ALIAS AE TITLE Disassembly St 32	IP ADDRESS Disassembly St 34	PORT # Disassembly St 36
WS-Site B	3:1	DNSSec 3des	Disassem 3	1.2.3.7	104
Archiv-Site B	3:1	IPSec 3	Disassem 3	1.2.3.7	104
WS-Site C	2:1	IPSec 3	Disassem 4	1.2.4.7	104

FIG. 3

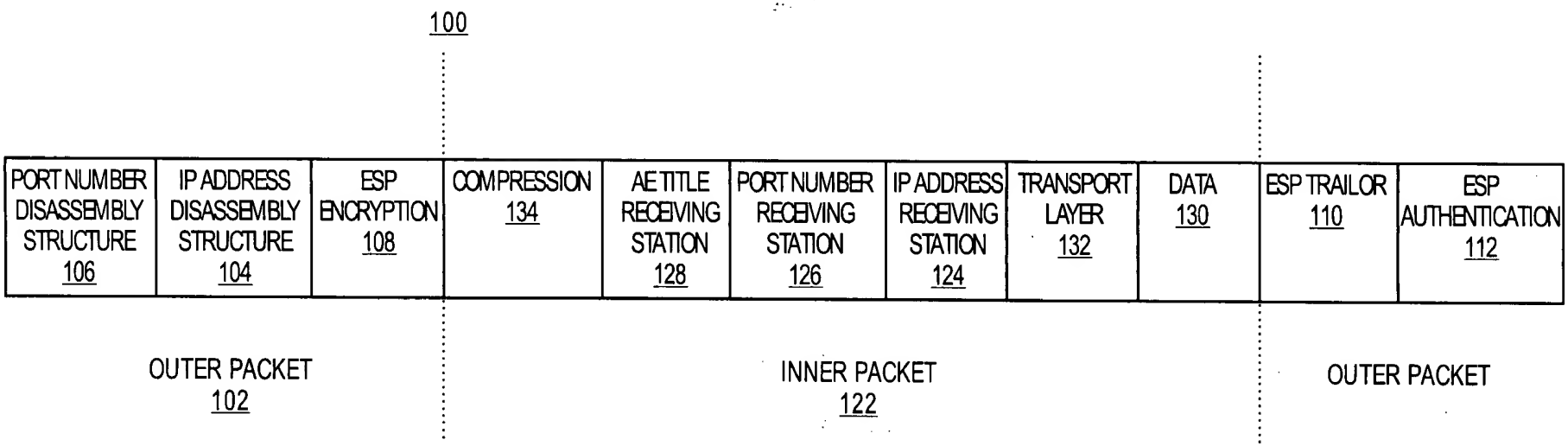
100
PORT NUMBER DISASSEMBLY STRUCTURE 106
IP ADDRESS DISASSEMBLY STRUCTURE 104
ESP ENCRYPTION 108
COMPRESSION 134
AE TITLE RECEIVING STATION 128
PORT NUMBER RECEIVING STATION 126
IP ADDRESS RECEIVING STATION 124
TRANSPORT LAYER 132
DATA 130
ESP TRAILOR 110
ESP AUTHENTICATION 112
OUTER PACKET 102
INNER PACKET 122
OUTER PACKET

FIG. 4A

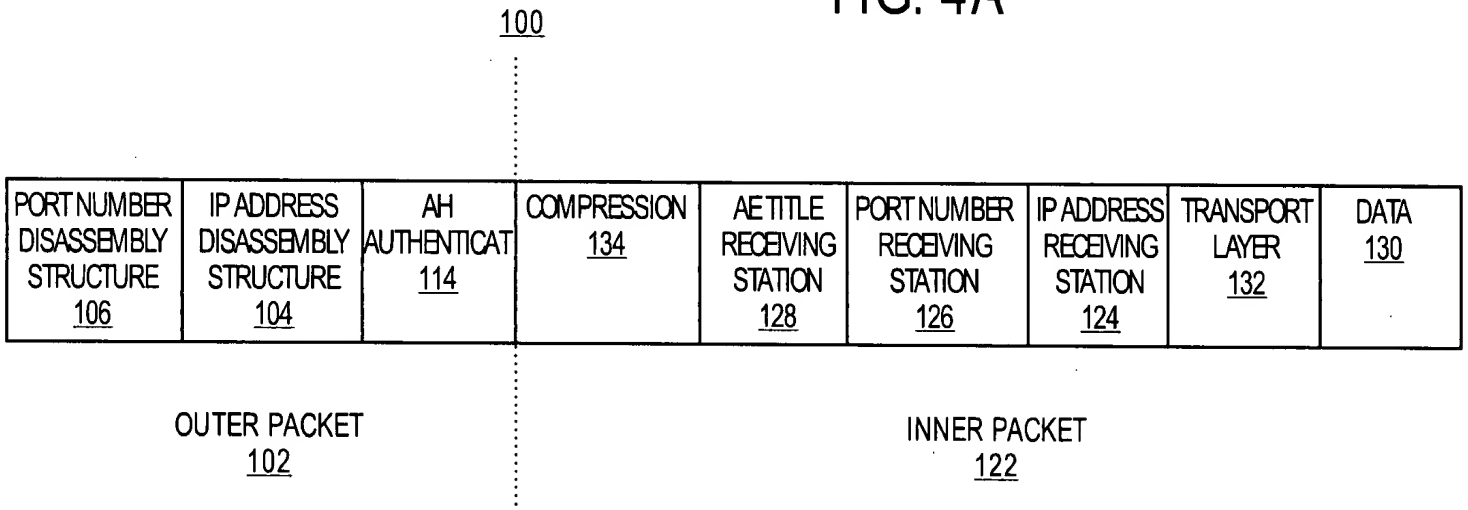
100
PORT NUMBER DISASSEMBLY STRUCTURE 106
IP ADDRESS DISASSEMBLY STRUCTURE 104
AH AUTHENTICAT 114
COMPRESSION 134
AE TITLE RECEIVING STATION 128
PORT NUMBER RECEIVING STATION 126
IP ADDRESS RECEIVING STATION 124
TRANSPORT LAYER 132
DATA 130
OUTER PACKET 102
INNER PACKET 122

FIG. 4B

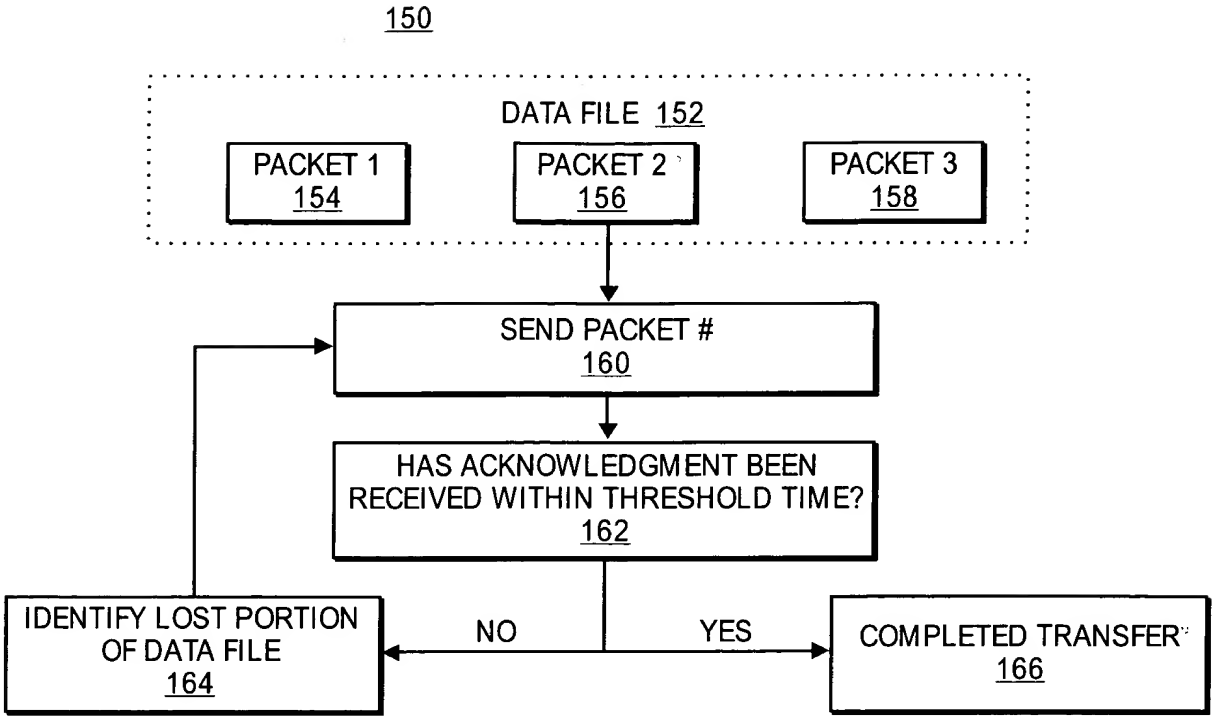

FIG. 5A

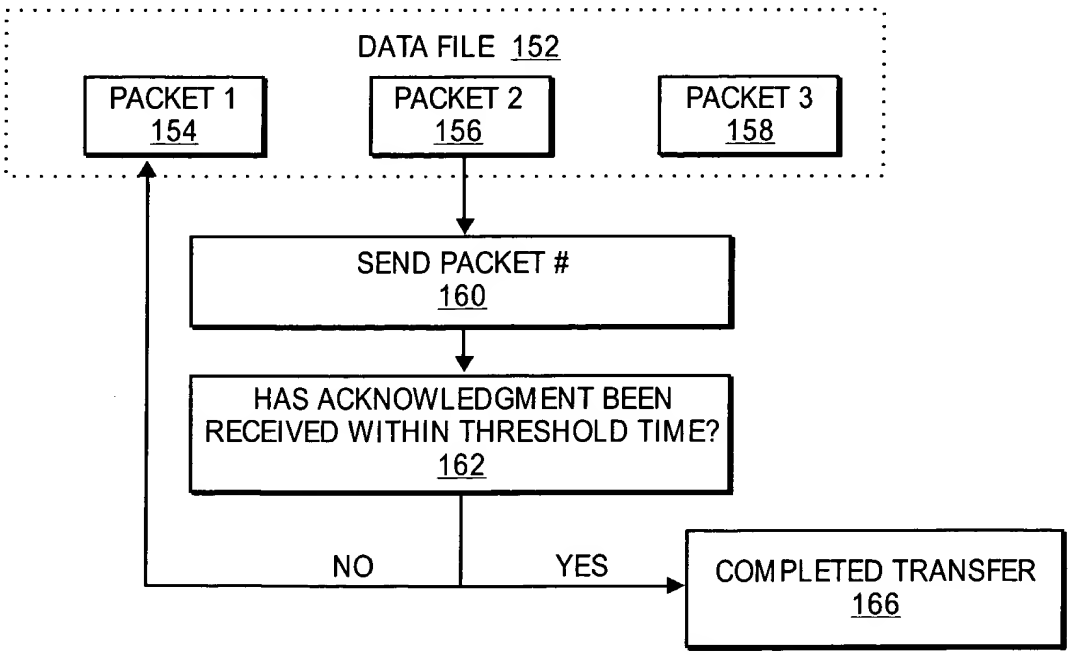

FIG. 5B
(PRIOR ART)

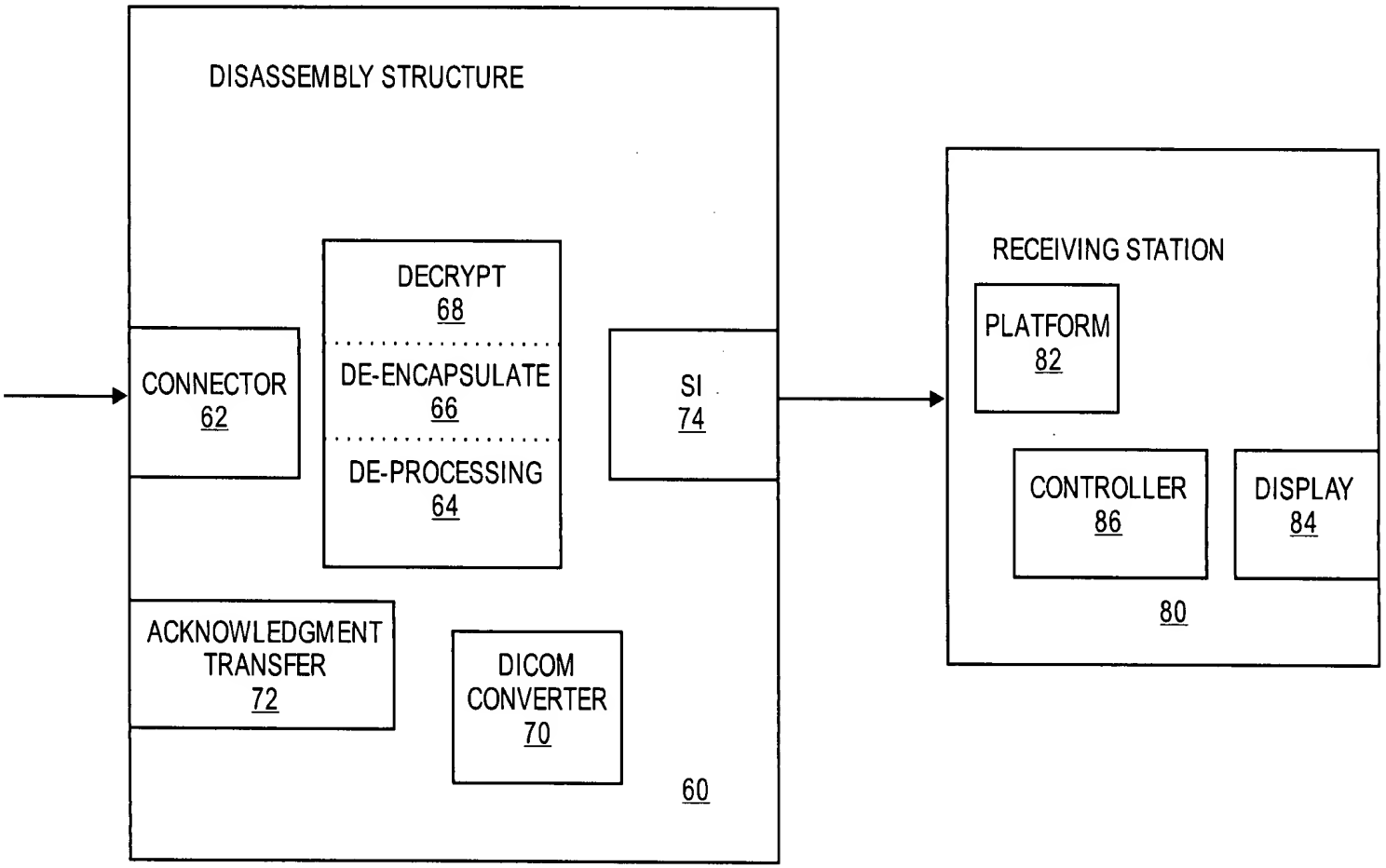
DISASSEMBLY STRUCTURE
DECRYPT
68
DE-ENCAPSULATE
66
DE-PROCESSING
64
CONNECTOR
62
SI
74
ACKNOWLEDGMENT
TRANSFER
72
DICOM
CONVERTER
70
60
RECEIVING STATION
PLATFORM
82
CONTROLLER
86
DISPLAY
84
80

FIG. 6

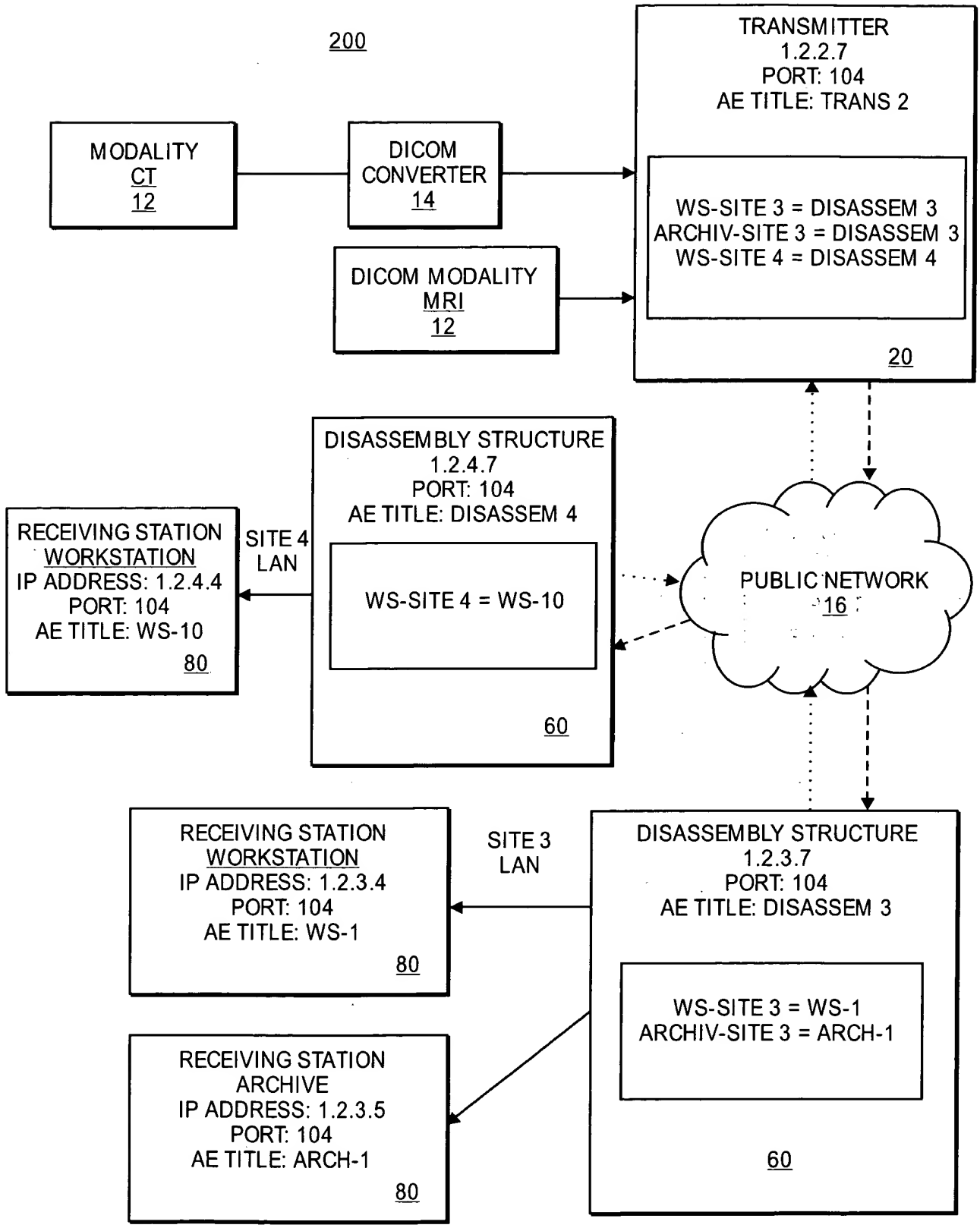
200
TRANSMITTER
1.2.2.7
PORT: 104
AE TITLE: TRANS 2
MODALITY
CT
12
DICOM
CONVERTER
14
WS-SITE 3 = DISASSEM 3
ARCHIV-SITE 3 = DISASSEM 3
WS-SITE 4 = DISASSEM 4
DICOM MODALITY
MRI
12
20
DISASSEMBLY STRUCTURE
1.2.4.7
PORT: 104
AE TITLE: DISASSEM 4
RECEIVING STATION
WORKSTATION
IP ADDRESS: 1.2.4.4
PORT: 104
AE TITLE: WS-10
80
SITE 4
LAN
WS-SITE 4 = WS-10
60
PUBLIC NETWORK
16
RECEIVING STATION
WORKSTATION
IP ADDRESS: 1.2.3.4
PORT: 104
AE TITLE: WS-1
80
SITE 3
LAN
DISASSEMBLY STRUCTURE
1.2.3.7
PORT: 104
AE TITLE: DISASSEM 3
WS-SITE 3 = WS-1
ARCHIV-SITE 3 = ARCH-1
60
RECEIVING STATION
ARCHIVE
IP ADDRESS: 1.2.3.5
PORT: 104
AE TITLE: ARCH-1
80

FIG. 7